

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/011106

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>EP 0 912 016 A (LUCENT TECHNOLOGIES INC) 28 April 1999 (1999-04-28) figures 7,12 page 2, paragraph 1 page 3, paragraph 9 page 5, paragraphs 23,24 page 7, paragraphs 29,30 page 8, paragraphs 37,38 page 9, paragraphs 39,40,45 page 20, paragraphs 110,111 page 26, paragraph 126 page 28, paragraph 145 page 29, paragraph 147</p> <p>-----</p> <p style="text-align: center;">-/--</p>	1-9

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

Date of mailing of the International search report

1 February 2005

08/02/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/093530 A1 (SYED MAJID) 15 May 2003 (2003-05-15) figures 1,7 page 2, paragraph 13-15 page 3, paragraphs 24,30 page 4, paragraph 52 page 5, paragraph 77-79 page 6, paragraph 95 page 7, paragraph 99 _____	1-9
A	US 5 193 090 A (FILIPIAK JANUSZ ET AL) 9 March 1993 (1993-03-09) figures 6-10 column 1, lines 5-26 column 2, lines 14-37 column 3, lines 62-68 column 4, lines 1-10 column 5, lines 15-36 column 7, lines 35-55 column 8, lines 60-68 column 9, lines 1-61 column 10, lines 23-41 _____	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/011106

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0912016	A	28-04-1999	US	6567416 B1		20-05-2003
			CA	2249818 A1		14-04-1999
			CA	2249819 A1		14-04-1999
			CA	2249840 A1		14-04-1999
			CA	2249864 A1		14-04-1999
			CA	2249865 A1		14-04-1999
			CA	2249866 A1		14-04-1999
			CA	2249868 A1		14-04-1999
			DE	69813135 D1		15-05-2003
			DE	69813135 T2		11-12-2003
			EP	0912015 A2		28-04-1999
			EP	0917316 A2		19-05-1999
			EP	0912016 A2		28-04-1999
			EP	0915592 A1		12-05-1999
			EP	0917317 A1		19-05-1999
			EP	0913968 A1		06-05-1999
			EP	0910176 A2		21-04-1999
			IL	126522 A		10-11-2002
			JP	3477086 B2		10-12-2003
			JP	11298532 A		29-10-1999
			JP	3532424 B2		31-05-2004
			JP	11261623 A		24-09-1999
			JP	3435078 B2		11-08-2003
			JP	11289339 A		19-10-1999
			JP	3234194 B2		04-12-2001
			JP	11289340 A		19-10-1999
			JP	3581261 B2		27-10-2004
			JP	11298533 A		29-10-1999
			JP	3545223 B2		21-07-2004
			JP	11289351 A		19-10-1999
			JP	3443340 B2		02-09-2003
			JP	11289341 A		19-10-1999
			US	6327254 B1		04-12-2001
			US	6115390 A		05-09-2000
			US	6469991 B1		22-10-2002
			US	6377548 B1		23-04-2002
			US	6226277 B1		01-05-2001
			US	6285665 B1		04-09-2001
			US	2003214928 A1		20-11-2003
			US	6674765 B1		06-01-2004
			US	6594240 B1		15-07-2003
			US	6400695 B1		04-06-2002
US 2003093530	A1	15-05-2003	WO	03038638 A1		08-05-2003
US 5193090	A	09-03-1993	WO	9000841 A1		25-01-1990